

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/885,297

DATE: 07/24/2001

TIME: 17:05:03

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07242001\I885297.raw

163 <213> ORGANISM: Artificial Sequence  
 165 <220> FEATURE:  
 166 <223> OTHER INFORMATION: Description of Artificial Sequence:primer  
 168 <400> SEQUENCE: 7  
 169 taatacgact cactataggg 20  
 172 <210> SEQ ID NO: 8  
 173 <211> LENGTH: 18  
 174 <212> TYPE: DNA  
 175 <213> ORGANISM: Artificial Sequence  
 177 <220> FEATURE:  
 178 <223> OTHER INFORMATION: Description of Artificial Sequence:primer  
 180 <400> SEQUENCE: 8  
 181 taacaatttc acacagga 18  
 184 <210> SEQ ID NO: 9  
 185 <211> LENGTH: 19  
 186 <212> TYPE: DNA  
 187 <213> ORGANISM: Artificial Sequence  
 189 <220> FEATURE:  
 190 <223> OTHER INFORMATION: Description of Artificial Sequence:primer  
 192 <400> SEQUENCE: 9  
 193 cactgacgttg taaaacgac 19  
 196 <210> SEQ ID NO: 10  
 197 <211> LENGTH: 30  
 198 <212> TYPE: DNA  
 199 <213> ORGANISM: Artificial Sequence  
 201 <220> FEATURE:  
 202 <223> OTHER INFORMATION: Description of Artificial Sequence:primer  
 204 <400> SEQUENCE: 10  
 205 gactggatgg ttatccgaat aagagagagg 30  
 208 <210> SEQ ID NO: 11  
 209 <211> LENGTH: 8  
 210 <212> TYPE: DNA  
 211 <213> ORGANISM: Artificial Sequence  
 213 <220> FEATURE:  
 214 <223> OTHER INFORMATION: Description of Artificial Sequence:primer  
 216 <400> SEQUENCE: 11  
 217 ggcgcgcc 8  
 220 <210> SEQ ID NO: 12  
 221 <211> LENGTH: 11544  
 222 <212> TYPE: DNA  
 223 <213> ORGANISM: Artificial Sequence  
 225 <220> FEATURE:  
 226 <223> OTHER INFORMATION: Description of Artificial Sequence:vector  
 228 <220> FEATURE:  
 229 <223> OTHER INFORMATION: all occurrences of n to be sequenced  
 231 <220> FEATURE:  
 232 <223> OTHER INFORMATION: nucleotide positions 1-1451 encodes promoter  
 234 <220> FEATURE:  
 235 <223> OTHER INFORMATION: nucleotide positions 1452-2735 encodes cel2 gene

gtagtttatc acagttaaatt tgctaacgca gtcaggcacc gtgt atg aaa tct aac 7072  
Met Lys Ser Asn

aat gcg ctc atc gtc atc ctc ggc acc gtc acc ctg gat gct gta ggc 7120  
Asn Ala Leu Ile Val Ile Leu Gly Thr Val Thr Leu Asp Ala Val Gly  
5 10 15 20

ata ggc ttg gtt atg ccg gta ctg ccg ggc ctc ttg cgg gat atc gtc 7168  
Ile Gly Leu Val Met Pro Val Leu Pro Gly Leu Leu Arg Asp Ile Val  
25 30 35

cat tcc gac agc atc gcc agt cac tat ggc gtg ctg cta gcg cta tat 7216  
His Ser Asp Ser Ile Ala Ser His Tyr Gly Val Leu Leu Ala Leu Tyr  
40 45 50

gcg ttg atg caa ttt cta tgc gca ccc gtt ctc gga gca ctg tcc gac 7264  
Ala Leu Met Gln Phe Leu Cys Ala Pro Val Leu Gly Ala Leu Ser Asp  
55 60 65

partial listing of incorrectly  
numbered amino acids in  
Sequence 12. Per 1.822 of  
Sequence Rules, number the  
amino acids under every 5 amino  
acids

09/885,297 9

<170> PatentIn Ver. 2.0

<210> 13

delete this - it only appears  
at beginning of Sequence Listing

FYI

Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

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Input Set : A:\Pto.amc

Output Set: N:\CRF3\07242001\I885297.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number  
 L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
 L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:489 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:493 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:497 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:501 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:505 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:509 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:513 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:517 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:521 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:525 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:529 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:533 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:537 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:541 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:545 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:549 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:553 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:557 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:561 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:606 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:608 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:612 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:616 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:620 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:624 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:628 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:632 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:636 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:640 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12

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L:644 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:648 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:652 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:656 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:660 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:664 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:668 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:672 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:676 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:680 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:684 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:688 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:692 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:696 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:700 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:704 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:798 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12

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Input Set : A:\Pto.amc

Output Set: N:\CRF3\07242001\I885297.raw

L:817 M:280 W: Numeric Identifier already exists, <170> found multiple times  
L:922 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:922 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:923 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:923 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:924 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:924 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:925 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:925 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:926 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:926 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:927 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:927 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:928 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:928 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:929 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:929 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:930 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:930 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:931 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:931 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:932 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:932 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:933 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:933 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:934 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:934 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:935 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:935 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:936 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:936 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:937 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
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L:1016 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:1016 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:1017 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:1017 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:1018 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
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L:1019 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
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L:1020 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:1020 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17

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L:1021 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:1021 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17